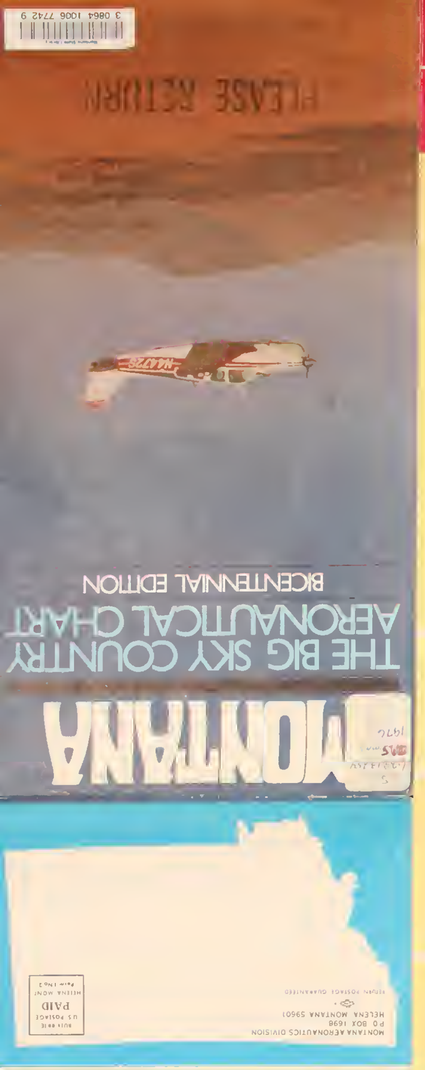
3 0864 1006 7742 9

PLEASE RETURN

THE BIG SKY COUNTRY
AERONAUTICAL CHART
BICENTENNIAL EDITION

MONTANA



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MONTANA AERONAUTICS DIVISION
P.O. BOX 1698
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RETURN POSTAGE GUARANTEED

Montana is a magnificent flight expanse and we hope this map will aid you in having many safe journeys.

For those new to Montana, we extend our welcome and encourage you to stay awhile to explore our state's amazing array of scenic and recreational areas. We hope those already familiar with the Big Sky Country will continue to help retain its grandeur while enjoying the many attributes that make up Montana.

Modern airports—beautiful scenery—a sportsman's joy both winter and summer, spring and fall, comfortable accommodations, and some of the friendliest people in the west .... This is Montana.

Good flying!

Thomas L. Judge, Governor

Ronald P. Richards, Director, Department of Community Affairs

Michael D. Ferguson, Administrator, Aeronautics Division

Montana Board Of Aeronautics

Richard O'Brien, Chairman, Conrad
Thomas F. Kiely, Vice Chairman, Butte
Tom Burns, Hobson
William A. Merrick, Bozeman
Leo Collar, Rexford
Bruce Vanica, Billings
A. J. Patenaude, Red Lodge

Radio and Aeronautical Information

FILE A FLIGHT PLAN

FAA requests that you obtain a thorough weather briefing before filing your Flight Plan.

DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION — Form Approved OMB No. 04-R0072

FLIGHT PLAN

1. TYPE	2. AIRCRAFT IDENTIFICATION	3. AIRCRAFT TYPE/ SPECIAL EQUIPMENT	4. TRUE AIRSPEED	5. DEPARTURE POINT	6. DEPARTURE TIME Proposed (Z)	7. CRUISING ALTITUDE
X VFR / IFR / DVFR	N44268	SK91BRD 100	120 KTS	HLN	0600	9500

8. ROUTE OF FLIGHT: V2 BZN V2LVM V2 BIL

9. DESTINATION (Name of airport and city)	10. EST. TIME ENROUTE HOURS	MINUTES	11. REMARKS
LOGAN FLD BILLINGS	1	20	

12. FUEL ON BOARD HOURS	MINUTES	13. ALTERNATE AIRPORT(S)	14. PILOT'S NAME, ADDRESS & TELEPHONE NUMBER & AIRCRAFT HOME BASE	15. NUMBER ABOARD
5	0	—	M. E. WARD 1211 N 4th AVE HELENA 321-4012	4

16. COLOR OF AIRCRAFT: SILVER & BLUE — CLOSE VFR FLIGHT PLAN WITH Blk FSS ON ARRIVAL

FAA Form 7233-1 (5-71)

SPECIAL EQUIPMENT SUFFIX

- /T Transponder, with 64 code capability
- /U Transponder, with 4096 code capability
- /D DME
- /B DME and transponder, with 64 code capability
- /A DME and transponder, with 4096 code capability
- /S 4096 code transponder and approved area navigation
- /S 64 code transponder and approved area navigation
- /W no transponder and approved area navigation

1 Type of Flight Plan
2 Aircraft Identification No
3 Aircraft Type/ Special Equipment
4 True Airspeed
5 Departure Point
6 Departure Time Proposed and (Actual)
7 Cruising Altitude
8 Route of Flight
9 Destination (Name of Airport and City)
10 Estimated Time Enroute
11 Remarks
12 Fuel on Board (Hours and Minutes)
13 Alternate Airport(s)
14 Pilot's Name, Address and Telephone No. and Aircraft Home Base
15 Numbers Aboard
16 Color of Aircraft

REQUIREMENTS FOR USE OF MONTANA PILOT FLIGHT PLAN

1. All Pilots must be registered and have a Montana registration number.
2. It not able to file by radio, pilots at Non-Flight Service Station points in Montana have authority to call Flight Service Station Point Collect to file at their Flight Plan.
3. No calls will be accepted from a point served by the Federal Aviation Administration Flight Service Station.
4. No instructions are placed on either Pilots or Commercial Flights.
5. Only Montana Flight Service Stations which hold Broadcast calls will accept calls.
6. Federal Aviation Administration Flight Service Station will accept only calls for blind or training flight plans.
7. Pilot #1 on Flight Service Station Airport plans to Collect phone call to nearest Flight Service Station stating this is a collect call. Montana Pilot Flight Plan.
8. Please avoid calling during weather broadcast.

FAA FLIGHT SERVICE STATIONS AND U.S. WEATHER BUREAUS

	Weather Phone	FSS Phone
BILLINGS		259-4545
BELGRADE (BZN		388-4242
BUTTE		494-3004
CUT BANK		938-4522
GLASGOW	228-4042	
GREAT FALLS	761-7110	761-7110
HAVRE	265-6424	
HELENA	442-2260	442-9902
KALISPELL	756-4629	
LEWISTOWN		538-2639
LIVINGSTON		222-2411
MILES CITY		232-1503
MISSOULA	542-2230	542-2230

MORSE CODE AND PHONETIC ALPHABET

Alfa .-	Juliett .---	Sierra ...	2 ..---
Bravo -...	Kilo -.-	Tango -	3 ...--
Charlie -.-.	Lima .-..	Uniform ..-	4 ....-
Delta -..	Mike --	Victor ...-	5 .....
Echo .	November -.	Whiskey .--	6 -....
Foxtrot ..-.	Oscar ---	Xray -..-	7 --...
Golf --.	Papa .--.	Yankee -.--	8 ---..
Hotel	Quebec --.-	Zulu --..	9 ----.
India ..	Romeo .-.	1 .----	0 -----

LIGHT GUN SIGNALS

COLOR AND TYPE OF SIGNAL	On the ground	In flight
STEADY GREEN	Clear for take-off	Cleared to land
FLASHING GREEN	Cleared to taxi	Return for landing (to be followed by steady green at proper time).
STEADY RED	Stop.	Give way to other aircraft and continue circling.
FLASHING RED	Taxi clear of landing area (runway) in use.	Airport unsafe—do not land
FLASHING WHITE	Return to starting point on airport	
ALTERNATING RED & GREEN	General Warning Signal—Exercise Extreme Caution.	

EMERGENCY SIGNALS—GROUND TO AIR

EXPLANATION OF TELETYPEWRITER WEATHER REPORTS

NOTAM (Notice to Airmen)

(continuation of weather report)

=SKC 11 OVC 070 + C 11 + 4213

SKY AND CEILING

Sky cover symbols are in ascending order. Figures preceed sky symbols are heights in hundreds of feet above station elevation.

Sky cover symbols are contractions are:

CLR Clear: Less than 0.1 sky cover.
SCT Scattered: 0.1 to 0.5 sky cover.
BKN Broken: 0.6 to 0.9 sky cover.
OVC Overcast: More than 0.9 cover.

Thin (When prefixed to the above symbols)

- X Partial obscuration: 0.1 to less than 1.0 sky hidden by precipitation or obstruction to vision (haze or surface).
- X Obscuration: 1.0 sky hidden by precipitation or obstruction to vision (haze or surface).

Letter preceding height of layer identifies ceiling layer and indicates how ceiling height was obtained. Thus:

- A Aircraft
- B Balloon: Pilot, ceiling or radiosond
- E Estimated
- M Measured
- R Radar
- W Indefinite
- V Immediately following numerical value indicates a varying ceiling.

VISIBILITY

Reported in Statute Miles and Fractions (V=Variable)

WEATHER SYMBOLS

A Hail	L Drizzle	SP Snow Pellets
IC Ice Crystals	R Rain	SW Snow Showers
IP Ice Pellets	RW Rain Showers	T Thunderstorm
IPW Ice Pellet Showers	S Snow	ZL Freezing Drizzle
	SG Snow Grains	ZR Freezing Rain

PRECIPITATION INTENSITIES are indicated thus:

Very Light — light — (no sign) Moderate — + Heavy

OBSTRUCTION TO VISION SYMBOLS

D Dust	H Haze	BD Blowing Dust
F Fog	IF Ice Fog	BN Blowing Sand
GF Ground Fog	K Smoke	BS Blowing Snow

MIND

Direction in tens of degrees from true north, speed in knots. 0000 indicates calm. G indicates gusts. Peak speed follows G or G when gusts or squalls are reported. The combination WSHFT followed by the time (GMT) in remarks indicates windshift and its time of occurrence.

VRB in 1115 indicates wind variable within 6 knots.

EXAMPLES 3632 360 Degrees, 32 Knots
3627G40 360 Degrees, 27 Knots, Peak speed in gusts, 40 Knots

ALTIMETER SETTING

The first figure of the actual altimeter setting is always omitted from the report.

RUNWAY VISUAL RANGE (RVR)

RVR is reported from some stations. Extreme values for 10 minutes prior to observation are given in hundreds of feet. Runway identification precedes RVR report.

CODED PIREPS

Pilot reports of clouds not visible from ground are coded with AS1 height data preceding and/or following sky cover symbol to indicate cloud bases and/or tops respectively.

NOTAM INFORMATION

- ADP Automatic Data Processing code indicates NOTAM content
- NEF NOTAM I is Follow precedes each subsequent new or cancelled NOTAM
- C Cancelled NOTAM

* CNI Current NOTAM Indicator. The CNI code is followed by the serial number of previously transmitted current NOTAMs. Consult the NOSUM for current NOTAM data.

4/3 The 4 indicates month of April and the 3 indicates third NOTAM issued in the month of April.

DECODED REPORT

Helena Record observation. 1500 feet scattered clouds measured ceiling 2500 feet overcast, visibility 1 mile light rain, smoke, sea level pressure 1013.2 millibars, temperature 58°F, dewpoint 56°F, wind 180°, 7 knots altimeter setting 29.93 inches. Runway 04 left, visual range 2500 ft. variable to 4000 feet. Pilot reports top of overcast 3500 feet. Hulme NOTAM 4-4. NOS will receive a NOTAM 4 if cancelled, a NOTAM 4-2 and 4-3 current.

TYPE OF REPORT

The omission of type of report data identifies a wind used in code observation for the hour specified in the sequence heading. An set of inquiries, special observation is identified by the letters "SP" following station identification and a 24 hour clock — time group e.g., PI SP 0715 14MOVC. A special report indicates a significant change to one or more elements.

EXPLANATION OF TELETYPEWRITER WEATHER FORECASTS AND ADVISORIES

TERMINAL FORECASTS contain information for specific airports as extracted ceiling, visibility, cloud amounts, visibility, weather and obstruction to vision and surface wind. They are issued 2 times/day and are valid for 24 hours. The first 9 hours of each forecast are covered by a categorical statement indicating whether VFR, MVFR or IFR conditions are expected. Terminal forecasts will be written in the following form:

CEILING Identified by the letter "C"
CLOUD HEIGHTS Its hundreds of feet above the station (ground)
CLOUD LAYERS Stated in ascending order of height
VISIBILITY In statute miles but omitted if over 6 miles
WEATHER AND OBSTRUCTION TO VISION Standard weather and obstruction to vision symbols are used.

SURFACE WIND In tens of degrees and knots, omitted when less than 10
Example of TERMINAL FORECAST:

BOA 222333— BOA Forecast 22nd day of month—valid time 232 22Z

180SCT/BRN/HSW
345SC33
OCNL CRF15H—

Scattered clouds at 1000 feet, tuning 1800 feet locally, visibility 5 miles, occasional light snow showers tuning and 340 degrees 15 knots Gusts to 25 knots OCNL ceiling 8 hundred feet, occasional visibility 1 mile in light snow showers

12Z C08B+/KS31/2032 At 12Z becoming ceiling 3000 feet broken, surface wind 320 degrees 12 knots Gusts to 20

17Z MVFR BCMG VFR
AFT 21Z—

Last 6 hours of FT at 17Z marginal VFR conditions becoming VFR after 21Z

AREA FORECASTS are 18 hour condition forecasts plus a 12 hour categorical outlook prepared 2 times/day giving general descriptions of cloud cover, weather and frontal conditions for an area the size of several states. Heighted cloud tops and icing are referenced ABOVE SEA LEVEL (ASL), ceiling heights, ABOVE GROUND LEVEL (AGL). Bases of cloud layers are ASL unless indicated. Each SIGMET or AIRMET utilizing an FA area will also serve to amend the Area Forecast.

SIGMET or AIRMET — warns aircraft in flight of potentially hazardous weather such as: tornadoes, thunderstorms, fog, icing, and turbulence. SIGMET summarizes severe and extreme conditions of importance to all pilots. AIRMET concerns less severe conditions which may be hazardous to some aircraft or to relatively inexperienced pilots. Both are broadcast by FAA or NAVAID voice channels.

WINDS AND TEMPERATURES ALOFT (FD) FORECASTS are 12 hour forecasts of wind direction (nearest 10° true) and speed (nearest knot) at selected flight levels. Temperatures aloft — (C) are included for all but the 3000 foot level.

EXAMPLES OF WINDS AND TEMPERATURES ALOFT (FD) FORECASTS:

FD WBC 170745
BASED ON 1212Z DATA
VALID 180000Z FOR USE 1000-2100Z (TEMPS NEG ABV 24000

FT	3000	6000	9000	12000	18000	24000	30000
ROS	3127	3423-07	3420-11	3421-16	3516-27	3512-38	3116-49
HLN	3020	3337-08	3324-17	3332-16	1120-27	2923-38	281248

At 6000 feet ASL over ROS wind from 300° at 27 knots and temperature minus 8° C.

TIMES, CONTINUOUS TRANSCRIBED WEATHER BROADCASTS: Individual state broadcasts covering 2-3 selected mile zone either side of a specific line for the route. By requesting a specific route number, decoded enroute weather for the 18 hour period plan en route can be obtained.

FLOWS request for flight weather to record 155. The forecaster reads what appears on a suitable fly, phone at the nearest pilot weather briefing office by calling WX-10.

CRUISING ALTITUDE/FLIGHT LEVEL

BELOW FL 290

180° 359°M	0° 179°M
VFR OR ON TOP	VFR OR ON TOP
EVEN THOUSANDS PLUS 500'	ODD THOUSANDS PLUS 500'
IFR EVEN THOUSANDS	IFR ODD THOUSANDS

ALTIMETER SETTINGS

ABOVE 18,000 FT MSL use standard altimeter setting (29.92)
AT OR ABOVE 18,000 FT MSL use Flight Level altimeter setting (29.92 MSL)

CRUISING ALTITUDES/FLIGHT LEVELS

1. VFR altitudes or flight levels become effective about 3,000 ft AGL
2. IFR en route low altitude airways are established by the FAA based upon terrain and navigational facility considerations.
3. IFR altitudes or flight levels in uncontrolled airspace are effective from surface upward.
4. Controlled airspace is controlled airspace at and above 14,500 ft or designated as:
   a. That airspace less than 1,500 ft above the surface of the earth.
   b. Prohibited and restricted areas other than those listed in Federal Aviation Regulations 71.151
   c. Positive control area is controlled airspace from 18,000 ft. MSL to precisely FL 600. (IFR FLIGHT PLAN TRANSPONDER and 2 WAY RADIO REQUIRED WITHIN THIS AREA)

For complete information refer to Federal Aviation Regulations 71.9 71.151 91.109 and 91.121

VISUAL FLIGHT RULES-MINIMUMS

91.105 BASIC VFR WEATHER MINIMUMS

(a) Except as provided in 91.107, no person may operate an aircraft under VFR when the flight visibility is less, or at a distance from clouds that is less, than that prescribed for the corresponding altitude in the following table:

Altitude	Flight visibility	Distance from clouds
1,200 feet or less above the surface (regardless of MSL altitude)— Within controlled airspace	3 statute miles	500 feet below 1,000 feet above. 2,000 feet horizontal
Outside controlled airspace	1 statute mile except as provided in 91.105(b)	Clear of clouds
More than 1,200 feet above the surface but less than 10,000 feet MSL— Within controlled airspace	3 statute miles	500 feet below 1,000 feet above 2,000 feet horizontal
Outside controlled airspace	1 statute mile	500 feet below 1,000 feet above 2,000 feet horizontal
More than 1,200 feet above the surface and at or above 10,000 feet MSL	5 statute miles	1,000 feet below 1,000 feet above 1 mile horizontal

(b) When the visibility is less than one mile, a helicopter may be operated outside controlled airspace at 1,200 feet or less above the surface if operated at a speed that allows the pilot adequate opportunity to see any air traffic or other obstruction in time to avoid a collision.

(c) Except as provided in 91.107, no person may operate an aircraft, under VFR, within a control zone beneath the ceiling when the ceiling is less than 1,000 feet.

(d) Except as provided in 91.107, no person may take off or land an aircraft, or enter the traffic pattern of an airport, under VFR, within a control zone

(1) Unless ground visibility at that airport is at least 3 statute miles, or
(2) If ground visibility is not reported at that airport, unless flight visibility during landing or takeoff, or while operating in the traffic pattern, is at least 3 statute miles.

(e) For the purposes of this section, an aircraft operating at the base altitude of a transition area or control area is considered to be within the airspace directly below that area.

91.107 SPECIAL VFR WEATHER MINIMUMS IN A CONTROL ZONE

(a) Except as provided in 91.113, when a person has received an appropriate ATC clearance, the special weather minimums of this section instead of those contained in 91.105 apply to the operation of an aircraft by that person in a control zone under VFR.

(b) No person may operate an aircraft in a control zone under VFR except clear of clouds.

(c) No person may operate an aircraft (other than a helicopter) in a control zone under VFR unless flight visibility is at least one statute mile.

(d) No person may take off or land an aircraft (other than a helicopter) at any airport in a control zone under VFR

(1) Unless ground visibility at that airport is at least 1 statute mile, or
(2) If ground visibility is not reported at that airport, unless flight visibility during landing or takeoff is at least 1 statute mile.

(e) No person may operate an aircraft (other than a helicopter) in a control zone under the special weather minimums of this section, between sunset and sunrise (or in Alaska, when the sun is more than 30 degrees below the horizon) unless

(1) that person meets the applicable requirements for instrument flight under Part 61 of this chapter, and
(2) the aircraft is equipped as required in 91.33 (d)

COMMERCIAL BROADCAST STATIONS

Airport location	Radio Call	Hours of Operation	Freq (kHz)	Power (KW)
Anaconda	KANA	Days	580	1.00
Baker	KFIN	Days	960	5.00
Belgrade	KQVW	Days	630	1.00
Billings	KBMY	Continuous	1240	1.00
Billings	KOCR	Continuous	970	5.00
Billings	KQYN	Days	910	1.00
Billings	KUB1	Days	730	50
Billings	KOH	Continuous	790	5.00
Bozeman	KBZK	Continuous	1450	1.00
Bozeman	KMMN	Days	1230	1.00
Butte	KROW	Continuous	550	5.00
Butte	KRUF	Days	1370	5.00
Deer Lodge	KDRG	Days	1400	1.00
Dillon	KDBM	Days	1490	1.00
Glasgow	KLTZ	Days	1240	1.00
Glendive	KXGN	Days	1400	1.00
Glendive	KGLE	Days	590	50
Great Falls	KARR	Continuous	1400	1.00
Great Falls	KEIN	Continuous	1310	5.00
Great Falls	KUGI	Days	1450	1.00
Great Falls	KMON	Continuous	560	5.00
Hamilton	KLYQ	Days	980	1.00
Hardin	KHDN	Days	230	1.00
Havre	KOJM	Days	610	1.00
Helena	KCAP	Continuous	1340	1.00
Helena	KBLL	Days	1240	1.00
Kalispell	KOFI	Days	1180	10.00
Kalispell	KOEZ	Days	600	1.00
Lewistown	KLIQ	Days	1230	1.00
Libby	KLCB	Days	1230	1.00
Livingston	KPRK	Days	1340	1.00
Miles City	KATL	Days	1340	1.00
Missoula	KYLL	Continuous	1340	25
Missoula	KYSS	Days	930	5.00
Missoula	KGMY	Continuous	1450	1.00
Missoula	KGVO	Days	1290	5.00
Red Lodge	KRBN	Days	1450	1.00
Shelby	KSEN	Days	1150	5.00
Sidney	KGCX	Days	1480	5.00
West Yellowstone	KWYS	Days	920	1.00
Wolf Point	KVCK	Days	1430	1.00

AIRMARKED LOOKOUT TOWERS

Numbered towers on this map are airmarked. Most towers are manned during periods of fire danger only.

NO.	NAME	LAT.	LONG.
23	WEBB MTN.	48-48	115-22
29	SWIFT CURRENT	48-18	113-45
32	MT. MARSTON	48-46	114-18
37	CYCLONE	48-44	114-19
38	MT. RODERICK	48-42	115-12
47	BIG CREEK-BALDY	48-38	115-35
48	PINKHAM MTN.	48-38	115-07
51	MT. BROWN	48-38	113-50
56	WERNER	48-35	114-31
72	WHITEFISH	48-28	114-20
74	LONEMAN PK.	48-28	113-15
77	JOHNSON PK.	48-25	113-41
98	ASHLEY	48-17	114-12
99	FIREFIGHTER	48-20	112-53
111	RED PLUME	48-09	113-18
128	KAH	47-59	113-39
131	GEM	47-56	115-55
134	MISSION	47-54	113-51
136	SPOTTED BEAR	47-54	113-27
139	RICHARD	47-50	115-11
154	BEAR TOP	47-46	112-52
156	SEX PEAK	47-44	115-10
160	PRISCILLA PEAK	47-42	115-10
162	MUD LAKE	47-38	113-18
163	DRIVEWAY	47-36	115-25
165	BALDY	47-38	114-58
169	CLARK	47-33	115-19
172	COONEY	47-32	113-38
178	PATROL MTN.	47-27	112-54
184	JUMBO	47-23	113-07
191	UP UP MTN	47-20	115-20
199	LITTLE JOE	47-17	115-11
211	FALLS POINT	47-12	112-54
214	THOMPSON PEAK	47-11	114-54
216	BUBBLE ARROW	47-10	113-32
224	STARK MTN.	47-05	114-34
229	LANDOWNER MTN.	47-02	114-56
234	WILLIAMS PEAK	46-58	114-44
236	MINERAL MTN	47-00	113-59
237	MONUMENT	47-00	111-05
239	HUNTER	46-56	113-25
247	GRANITE BUTTE	46-52	112-35
248	PORPHYRY	46-51	110-15
251	UNION	46-48	113-24
252	HOGBACK	46-50	111-43
253	WHITE MTN	46-47	114-39
255	WESTSIDE BUTTE	46-44	114-25
265	SLIDEROCK	46-36	113-34
267	ST. MARIES PK	46-31	114-14
272	BLACK PINE	46-26	113-27
278	CABLE MTN	46-13	113-42
291	BENDER	45-47	113-13
292	HIGHLAND	45-46	112-31
293	BARE CONE	45-43	114-24
308	THUNDER MTN	45-31	114-17
311	ODELL	45-34	113-14
307	POKER JIM BUTTE	45-28	116-22
310	HORSE BUTTE	44-44	111-12
312	CINNAMON	45-08	114-14

AIRPORT LIGHTING

Airport lighting is available at the following airports on a part time basis. Pilots should contact the airport manager or the nearest FAA Flight Service Station for information on the availability of lighting.

Anaconda	Kalispell
Belgrade	Lewistown
Billings	Libby
Bozeman	Miles City
Butte	Missoula
Cut Bank	Sidney
Glasgow	West Yellowstone
Great Falls	Wolf Point
Havre	
Helena	

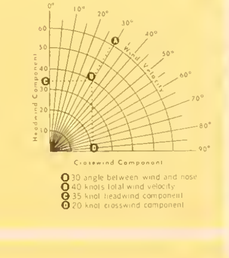
CROSS WIND COMPONENT CHART

Suggested use of GO/NO-GO wind chart for take off.

INSTRUCTIONS

1. Determine maximum 90° cross wind that you can handle. (suggest 20% + stall speed). Place a dot on the 90° line at this value.
2. Determine maximum 45° cross wind that you can handle, (suggest 30% + stall speed). Place a dot on the 45° line at this value.
3. Determine maximum head wind that you can handle, (suggest 60% + stall speed). Place a dot on line at this value.
4. Connect dots with a red line. Values to left of red line are GO wind velocities and directions.

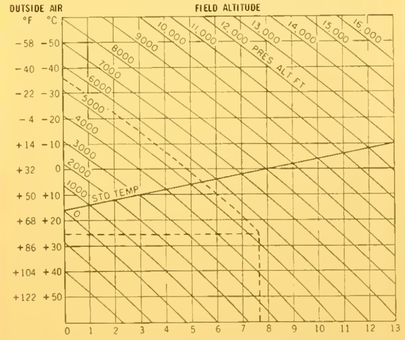
(Not to be used for navigational purposes)



OPERATIONAL ALTITUDE CHART

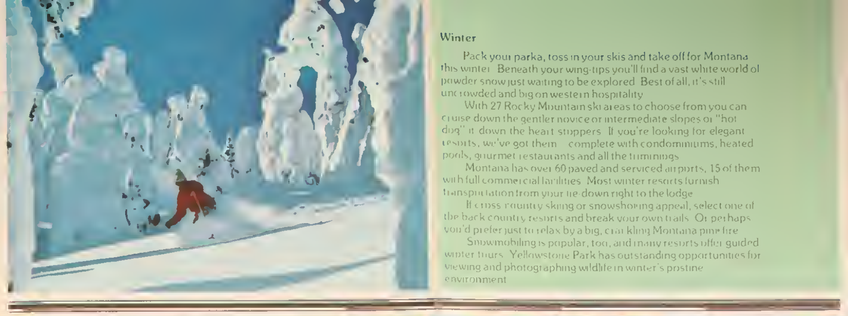
LEARN TO USE THIS CHART — POST IN PLANE

Operational altitude is the calculated altitude at the air at which the aircraft is flown. Aircraft operation, as a result, may be at an altitude greater or less than the actual altitude above Sea Level.



The following example illustrates the simple use of the chart to determine the conditions at the airport you plan to use.

Select the actual altitude of the airport to be used on the diagonal lines marked "Field Altitude" Example 3500 ft.
Next select the temperature. Example 77 F. Follow the temperature line to the right until it crosses the diagonal line Field Altitude. From the point where these two lines cross, follow a line to the bottom of the chart and obtain the approximate density altitude. Example 7700 ft.



Winter

Pack your parka, toss in your skis and take off for Montana this winter. Beneath your wing tips you'll find a vast white world of powder snow just waiting to be explored. Best of all, it's still uncrowded and big on western hospitality.

With 27 Rocky Mountain ski areas to choose from you can cruise down the gentler novice or intermediate slopes or "hot dog" it down the heart stoppers. If you're looking for elegant resorts, we've got them ... complete with condominiums, heated pools, gourmet restaurants and all the trimmings.

Montana has over 60 paved and serviced airports, 15 of them with full commercial facilities. Most winter resorts furnish transportation from your ne down right to the lodge.

If cross country skiing or snowshoeing appeal, select one of the back country resorts and break your own trails. Or perhaps you'd prefer just to relax by a big, cast iking Montana pine fire.

Snowmobiling is popular, too, and many resorts offer guided winter tours. Yellowstone Park has outstanding opportunities for viewing and photographing wildlife in winter's pristine environment.

Spring

Spring arrives late in the northern Rockies, providing excellent skiing conditions through April, long after more southerly slopes are closed.

Spring is a time of rebirth all across the open range of central and eastern Montana with lush new grass, carpets of wildflowers and fresh stock on the ranches. Dozens of dude and guest ranches offer vacations in true western style nearly any time of the year. They range from small, intimate family operations to deluxe spreads with swimming pools, tennis courts, golf and other amenities. Many working ranches invite guests to join roundups, branding and day-to-day operations.

Spring brings fishing with most Montana trout waters opening by mid-May. Fine mountain streams, lakes and swift rivers supply the most challenging and satisfying angling in the country. By June many of these same streams offer thrilling white water float trips; two—the Missouri and Yellowstone—have organized raft excursions.

Spring is also a good time to sample some of the state's rich historical heritage. From the Custer Battlefield and Lewis and Clark Expedition sites to Montana's 90 ghost towns, the past is just waiting to be rediscovered.

Summer

Spread your wings and fly. The clear, blue sky of Montana beckons.

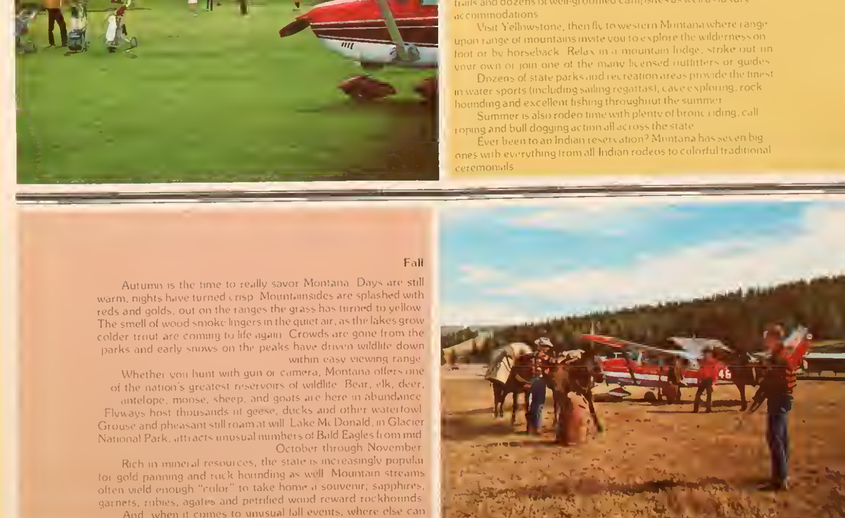
Glacier National Park, America's most spectacularly beautiful mountain park, offers more than a million acres of unspoiled scenery, 200 sparkling lakes, crystal streams, awesome peaks, alpine meadows, rare wildlife, 900 miles of back country trails and dozens of well-groomed campsites as well as luxury accommodations.

Visit Yellowstone, then fly to western Montana where range upon range of mountains invite you to explore the wilderness on foot or by horseback. Relax on a mountain ridge, stroke out in your own or join one of the many licensed outfitters or guides.

Dozens of state parks and recreation areas provide the finest in water sports (including sailing, regattas), cave exploring, rock hounding and excellent fishing throughout the summer.

Summer is also rodeo time with plenty of bronc riding, calf roping and bull dogging action all across the state.

Ever been to an Indian reservation? Montana has seven big ones with everything from all Indian rodeos to colorful traditional ceremonials.



Fall

Autumn is the time to really savor Montana. Days are still warm, nights have turned crisp. Mountainsides are splashed with reds and golds, out on the ranges the grass has turned to yellow. The smell of wood smoke lingers in the quiet air, as the lakes grow colder trout are coming to life again. Crowds are gone from the parks and early snows on the peaks have driven wildlife down within easy viewing range.

Whether you hunt with gun or camera, Montana offers one of the nation's greatest reservoirs of wildlife. Bear, elk, deer, antelope, moose, sheep, and goats are here in abundance. Flyways host thousands of geese, ducks and other waterfowl. Grouse and pheasant still roam at will. Lake Mc Donald, in Glacier National Park, attracts unusual numbers of Bald Eagles from mid October through November.

Rich in mineral resources, the state is increasingly popular for gold panning and rock hounding as well. Mountain streams often yield enough "color" to take home a souvenir, sapphires, garnets, rubies, agates and petrified wood reward rockhounds.

And, when it comes to unusual fall events, where else can you attend a buffalo roundup?

MONTANA AERONAUTICAL CHART

RADIO FACILITIES

FLIGHT SERVICE STATION

VOR FREQUENCY & IDENT (Pilot-controller operation)

VOR (SMALL SCALE) (1:5M) Radials are magnetic, from the station

TACAN CHANNEL

ENROUTE AIRWAY RADIAL

ALL AIRWAY AIRWAY RADIAL Airway is a flight of 2700 cubic ft (until lower 1,200 feet above the surface) and 4 miles on the other. Within transition of 1,200 feet above ground (the floor in controlled) with the floor on the transition area

AIRWAY BEACON

TRANSITION AREAS (over a flight of 1700 above ground level (AGL) unless otherwise stated)

FAN MARKER (75 mcs and 1 mile)

COMPULSORY REPORTING POINT

ON REQUEST REPORTING POINT

MOBILE FREQUENCY & IDENT

NON DIRECTIONAL BEACON

AIRPORT BEACON

AIRPORT BEACON

UNICOM

RUNWAY LENGTH IN HUNDREDS OF FEET

RUNWAY OR BOUNDARY LIGHTS

ELEVATION OF AIRPORT

AIRPORT WITH CONTROL TOWER & FREQUENCIES

AIRPORT CONTROL ZONE (Floor of Control Zone & Level)

ILS FACILITY & OUTER MARKER (Bearing, frequency & ident)

MAN MADE OBSTRUCTION

COMMERCIAL BROADCASTING STATION

MAGNETIC VARIATION 1975

City

Town

Village

Race Track

Mine or Quarry

Mountain Elevation

Forest or Cedar Town

Highway Multilane

Highway Improved

Highway Secondary

Railroad Single Track

Railroad Multiple Track

Mountain Passes

AIRPORTS — PAVED / UNPAVED

PUBLIC USE (Use of airports and/or air navigation facilities, limitations)

PUBLIC USE (No Beacon)

WARNING: UNCERTAIN OR UNKNOWN

Non built up areas (dimensions of obstacles, distance from runway, approach slope, height of obstacle) (e.g. 100' (30') AGO 5:1) PUBLIC ACCESS

Under certain circumstances (requires call to airport manager) or prior landing of safety (civilian) aircraft

MILITARY

HELIPORT (Heliport owner, phone, etc.)

ABANDONED

RESTRICTED / PRIVATELY OWNED (Restrictions for public use) Permission required for use. Users assume all risk.

FAA WEATHER STATIONS

Continuous automatic transcribed broadcast services on the following VOR's:

LOCATION — VOR NAME (IDENT) AND FREQUENCY

BILLINGS — Lockwood LKO 400 nm

BOZEMAN — Amsterdam AMS 323 nm

GREAT FALLS — Ingle GTF 351 nm

MILES CITY — Marlow MLS 320 nm

MISSOULA — Drummond DRU 308 nm

Edited and approved Airport & Airways Bureau

David C. Emmelhainz

Vincent L. Moody

January 8, 1976

Please submit the Montana Aeronautical Division of corrections and additions needed in using this chart.

Horizontal data and the charts' scale data as of January 23 1975

Correct time data for navigation for states of travelers

Scale: One inch equals approx. 18 statute miles

STATUTE MILES / NAUTICAL MILES

DUNCAN 113.4 DNW 32°

DUNCAN 113.4 DNW 32°

BOISE RESERVOIR 117.6 BOY 172°

MONTANA

WYOMING

SASKATCHEWAN

ALBERTA

NORTH DAKOTA

SOUTH DAKOTA

Great Falls

Helena

Bozeman

Billings

Miles City

Glasgow

Wolf Point

Havre

Kalispell

Missoula

Butte

Anaconda

Lewistown

Glendive

Sidney

Circle

Jordan

Hardin

Big Timber

Livingston

Harlowton

Roundup

Broadus

Ekalaka

Baker

Plentywood

Scobey

Malta

Chinook

Conrad

Cut Bank

Shelby

Three Forks

Dillon

Virginia City

Ennis

West Yellowstone

Cooke City

Red Lodge

Columbus

Laurel

Forsyth

Ashland

Lame Deer

Hysham

Terry

Fallon

Wibaux

Beach

Medicine Lake

Culbertson

Poplar

Wolf Point

Fort Peck

Glasgow

Malta

Havre

Chester

Shelby

Cut Bank

Conrad

Choteau

Fairfield

Augusta

Dupuyer

Browning

East Glacier Park

Babb

Kevin

Sunburst

Whitlash

Chinook

Harlem

Zurich

Big Sandy

Fort Benton

Loma

Big Sandy

Geraldine

Highwood

Belt

Stanford

Judith Gap

Harlowton

Ryegate

Roundup

Musselshell

Melstone

Forsyth

Rosebud

Miles City

Ismay

Baker

Jordan

Circle

Glendive

Sidney

Fairview

Wibaux

Beach

Medicine Lake

Plentywood

Scobey

Opheim

Whitetail

Westby